Water and Wastewater Rate Adjustments

November 18, 2015



Presentation Outline

- Introduction
- Why We Are Here
- Critical Infrastructure
- Financial Plans
- Rate Adjustment Program Process
- Zonal Charges
- Rate Adjustments Recommendation
- 2015 Water and Wastewater Rate Study
- Recommendations
- Next Steps

Priorities and Goals – Why?

- Maintaining Public Health and Safety
 - Fight Fires and Protect Property
 - Provide Safe, Clean Drinking Water
 - Prevent Sewage Overflows and Spills by Addressing Aging Infrastructure
 - Maintain Reliable and Dependable Water and Wastewater Systems





Priorities and Goals – How?

- Maintaining Reliable, Safe Water and Wastewater Systems
 - Robust preventative maintenance program
 - Rigorous water sampling program
- Continuing to Address Aging and Deteriorating Water and Wastewater Systems
 - Proactive capital replacement program
- Being Good Stewards of Water Supply with Conservation
 - Enhanced public outreach
 - Implemented advanced leak detection technology
- Balancing Financial and Environmental Sustainability
 - Continue to contain O&M costs

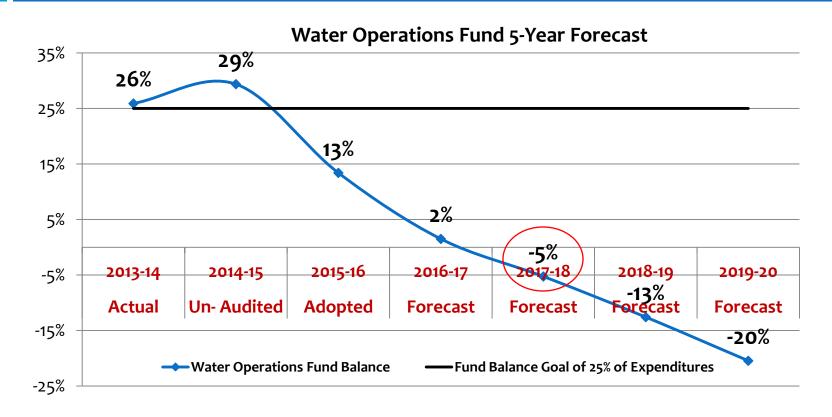




Essential Infrastructure

- Water and Wastewater Infrastructure \$200 million assets
- Operational 24/7 to ensure public health and safety
- Daily O&M is essential
 - To provide safe and reliable water and wastewater service
 - To meet Community expectations
 - To comply with regulatory requirements
- Capital investment plan to address aging infrastructure
- Debt Financing
 - Requirement to meet debt coverage covenants
 - Need to maintain strong credit rating for future system improvements

Financial Plan – Fund Balance



 Current revenue model heavily dependent on consumption while majority of costs are fixed 7

	2016	2017	2018	2019	2020
Changes in Annual Total Operating					
Expenditures		\$126,733	\$658,082	\$324,268	\$305,109
Main Contributors:					
Water Purchase		\$131,384	\$487,102	\$135,853	\$143,003
Personnel		\$39,287	\$82,624	\$88,459	\$89,226
Power		\$22,800	\$19,484	\$28,189	-

Proactive Steps Taken to Reduce Costs

- Council savings initiative from bonds refinancing
 - Water in 2014 \$1.5 million savings
 - Wastewater in 2015 \$1.0 million savings
- Council pension cost-sharing leadership
 - Future City increases split 50/50 with employees
- Cut \$200,000 in expenditures from Water Operations in FY 15-16 after budget was adopted
- Postponed hiring of vacant top level manager position for 18 months

Public Information and Outreach on Water System Financial Issues

- Adopted FY15 and Adopted FY16 budgets identified water financial issues
- City Council Goal Setting Retreat January 2015
- Comprehensive Water Workshop April 1, 2015
- Water's New Normal Workshop May 20, 2015
- Two Council Workshops October 21 and November 4

^{*} All information broadly distributed through City communication channels

Rate Adjustment Program Process

- NBS Comprehensive Water and Wastewater Rate Study
- Two Council Workshops (October 21 and November 4)
 - Utilities rate program
 - Future conservation
 - Aligning fixed/variable revenues and expenses
 - Subsidy for low-income residents
 - Zonal elevation surcharges
 - Pass-through provision
 - Rate structures
- Rate Study Findings and Recommendations

Rate Structure Design

- Distribute cost of service fairly and equitably
- Meet debt coverage covenants with bond holders
- Ensure the integrity of critical public health and safety assets
- Balance Environmental and Financial Considerations
 - Aligning Fixed/Variable Revenues with Costs
 - Current Revenues 20%/80%, Current Costs 70%/30%
 - Recommending a revenue model of 50%/50%
 - Shift from tiered to uniform rate structure

Rate Adjustments Recommendation – Revenue Adjustments

□ Proposed Water Revenue Adjustments <u>Alternative 1</u>

Annual Rate Revenue Increase 1/1/16 4/1/16 1/1/17 1/1/18 1/1/19 1/1/20 6.25% 9.00% 7.25% 7.25% 7.25% 7.25%

Alternative 2 (Recommended)

 1/1/16
 4/1/16
 1/1/17
 1/1/18
 1/1/19
 1/1/20

 Annual Rate Revenue Increase
 0.00%
 16.00%
 7.25%
 7.25%
 7.25%
 7.25%

□ Proposed <u>Wastewater</u> Revenue Adjustments (Recommended):

 1/1/16
 4/1/16
 1/1/17
 1/1/18
 1/1/19
 1/1/20

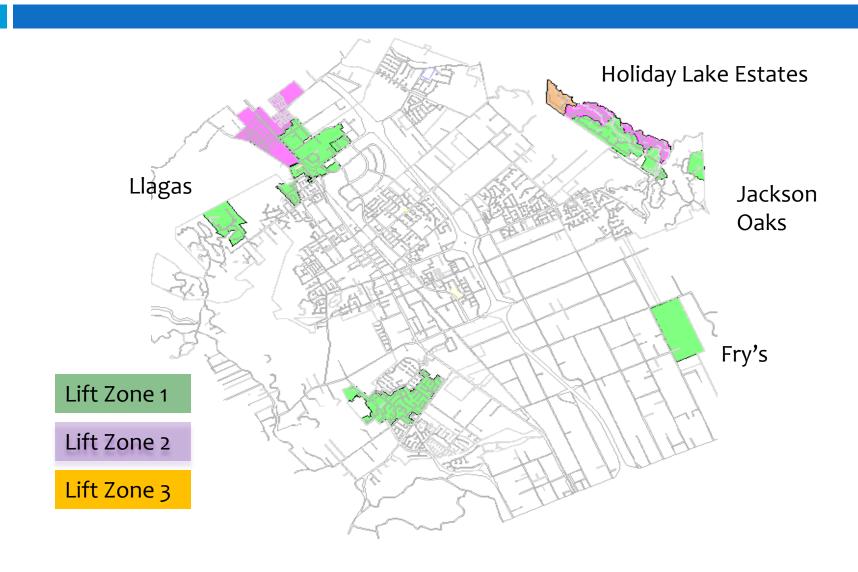
 Annual Rate Revenue Increase
 0.00%
 0.00%
 1.00%
 1.00%
 1.00%
 1.00%

Rate Adjustments Recommendation – Low-income Subsidy

	Current Subsidy					
	Amount	4/1/16	1/1/17	1/1/18	1/1/19	1/1/20
Increase in Subsidy (%)		10%	10%	10%	10%	10%
Water	\$3.63	\$3.99	\$4.39	\$4.83	\$5.31	\$5.85
Wastewater	<i>\$7.60</i>	\$8.36	\$9.20	\$10.12	\$11.13	\$12.24

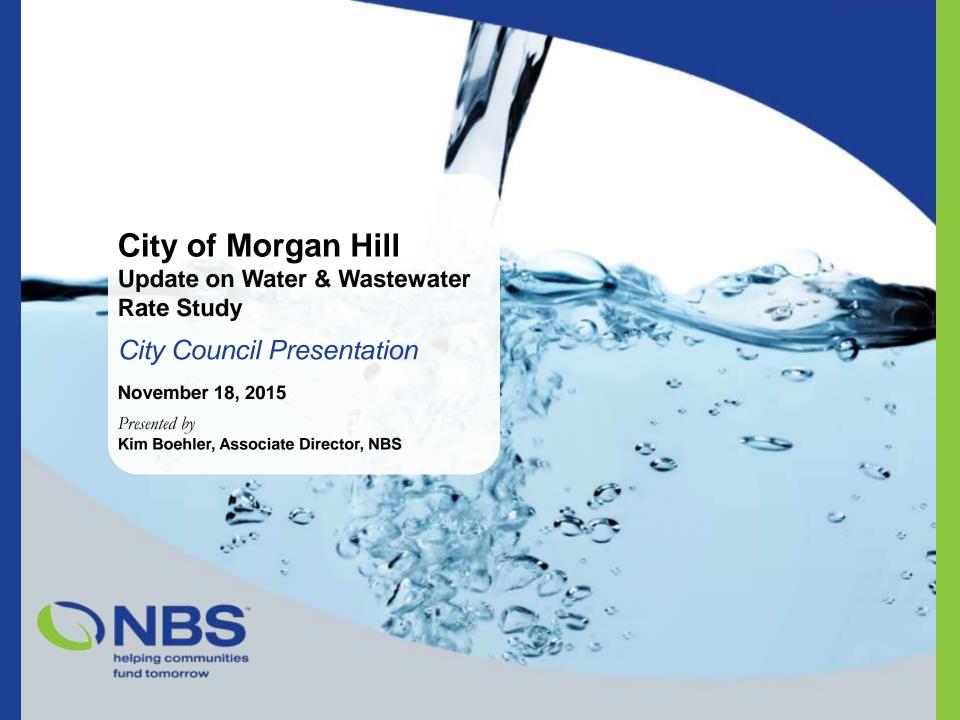
- To continue long term Council tradition
- Paid for by lease revenues, not subsidized by rate payers

Wastewater Zones Map



2015 Water and Wastewater Rate Study

- Update on Water and Wastewater Rate Study
 - Presentation by Kim Boehler, Associate Director, NBS



Overview of Presentation

- Overview of Key Rate Study Tasks
- Water Rate Study
 - ✓ Overview of Financial Plan
 - ✓ Rates for Financial Plan Alternatives
 - ✓ Bill Comparisons
 - ✓ Zonal Elevation Charges
- Wastewater Rate Study
 - ✓ Overview of Financial Plan
 - √ Proposed Rates
 - ✓ Bill Comparisons
 - ✓ Zonal Elevation Charges
- Recommended Next Steps



Water Rate Study Financial Plan Alternatives



Water Utility Financial Plan – Alternative #1

Summary of Sources and Uses of Funds and	Budget		Proj€	ected	
Net Revenue Requirements	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20
Sources of Water Funds					
Rate Revenue Under Prevailing Rates	\$ 7,329,555	\$ 7,476,146	\$ 8,703,075	\$ 8,877,136	\$ 9,054,679
Non-Rate Revenues	1,111,704	939,388	923,229	948,840	962,224
Interest Earnings	47,138	3,182	3,451	6,223	16,070
Total Sources of Funds	\$ 8,488,396	\$ 8,418,715	\$ 9,629,755	\$ 9,832,199	\$10,032,973
Uses of Water Funds					
Operating Expenses	\$ 8,924,651	\$ 9,051,571	\$ 9,709,848	\$10,034,316	\$10,339,632
Debt Service	939,538	945,549	944,774	943,336	944,184
Rate-Funded Capital Expenses			419,639	1,109,361	1,148,410
Total Use of Funds	\$ 9,864,189	\$ 9,997,120	\$11,074,261	\$12,087,013	\$12,432,227
Surplus (Deficiency) before Rate Increase	\$ (1,375,793)	\$ (1,578,405)	\$ (1,444,506)	\$ (2,254,814)	\$ (2,399,254)
Additional Revenue from Rate Increases	404,271	1,496,029	2,498,782	3,377,134	4,350,880
Surplus (Deficiency) after Rate Increase	\$ (971,522)	\$ (82,376)	\$ 1,054,276	\$ 1,122,320	\$ 1,951,627
Projected Annual Rate Increase 1	9.00%	7.25%	7.25%	7.25%	7.25%
Cumulative Rate Increases	15.81%	24.21%	33.21%	42.87%	53.23%
Net Revenue Requirement ²	\$ 8,705,347	\$ 9,054,551	\$10,147,581	\$11,131,951	\$11,453,933

^{1.} FY 2015/16 increase is effective on April 1, 2016. All subsequent rate increases are effective on January 1st of each year.

Assumes the previously approved and adopted 6.25% increase is implemented on January 1, 2016.



^{2.} Total Use of Funds less non-rate revenues and interest earnings. This is the annual amount needed from water rates.

Water Utility Financial Plan – Alternative #2

Summary of Sources and Uses of Funds and	Budget	Projected					
Net Revenue Requirements	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20		
Sources of Water Funds							
Rate Revenue Under Prevailing Rates	\$ 7,329,555	\$ 7,476,146	\$ 8,703,075	\$ 8,877,136	\$ 9,054,679		
Non-Rate Revenues	1,111,704	939,388	923,229	948,840	962,224		
Interest Earnings	47,138	2,904	2,967	5,827	15,622		
Total Sources of Funds	\$ 8,488,396	\$ 8,418,437	\$ 9,629,271	\$ 9,831,803	\$10,032,525		
Uses of Water Funds							
Operating Expenses	\$ 8,924,651	\$ 9,051,571	\$ 9,709,848	\$10,034,316	\$10,339,632		
Debt Service	939,538	945,549	944,774	943,336	944,184		
Rate-Funded Capital Expenses			419,639	1,109,361	1,148,410		
Total Use of Funds	\$ 9,864,189	\$ 9,997,120	\$11,074,261	\$12,087,013	\$12,432,227		
Surplus (Deficiency) before Rate Increase	\$ (1,375,793)	\$ (1,578,683)	\$ (1,444,990)	\$ (2,255,210)	\$ (2,399,702)		
Additional Revenue from Rate Increases	293,182	1,510,555	2,516,917	3,396,974	4,372,584		
Surplus (Deficiency) after Rate Increase	\$ (1,082,611)	\$ (68,128)	\$ 1,071,927	\$ 1,141,764	\$ 1,972,882		
Projected Annual Rate Increase 1	16.00%	7.25%	7.25%	7.25%	7.25%		
Cumulative Rate Increases	16.00%	24.41%	33.43%	43.10%	53.48%		
Net Revenue Requirement ²	\$ 8,705,347	\$ 9,054,829	\$10,148,065	\$11,132,347	\$11,454,381		

^{1.} FY 2015/16 increase is effective on April 1, 2016. All subsequent rate increases are effective on January 1st of each year.

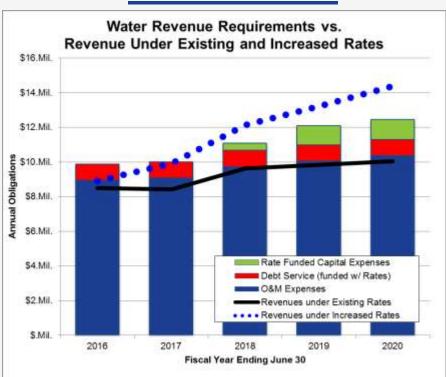
Assumes one rate increase is adopted on April 1, 2016 (the 6.25% increase will not be implemented).



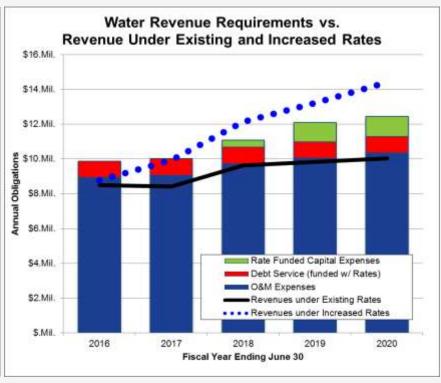
^{2.} Total Use of Funds less non-rate revenues and interest earnings. This is the annual amount needed from water rates.

Water Utility Financial Plan, cont.

Alternative #1



Alternative #2



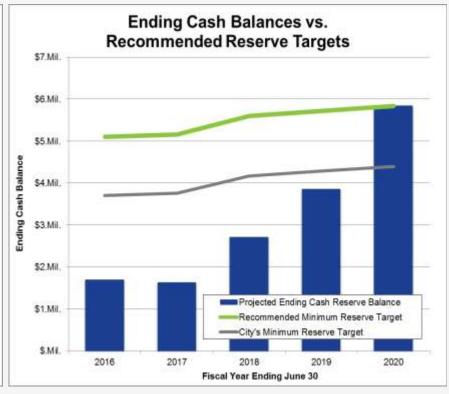


Water Utility Financial Plan, contd.

Alternative #1

Ending Cash Balances vs. **Recommended Reserve Targets** \$7.Mil. \$6.Mil. \$5.Mil. Ending Cash Balance \$4.Mil. \$3.Mil. \$2.Mil. Projected Ending Cash Reserve Balance Recommended Minimum Reserve Target \$1.Mil. City's Minimum Reserve Target \$.Mil. 2016 2017 2018 2019 2020 Fiscal Year Ending June 30

Alternative #2

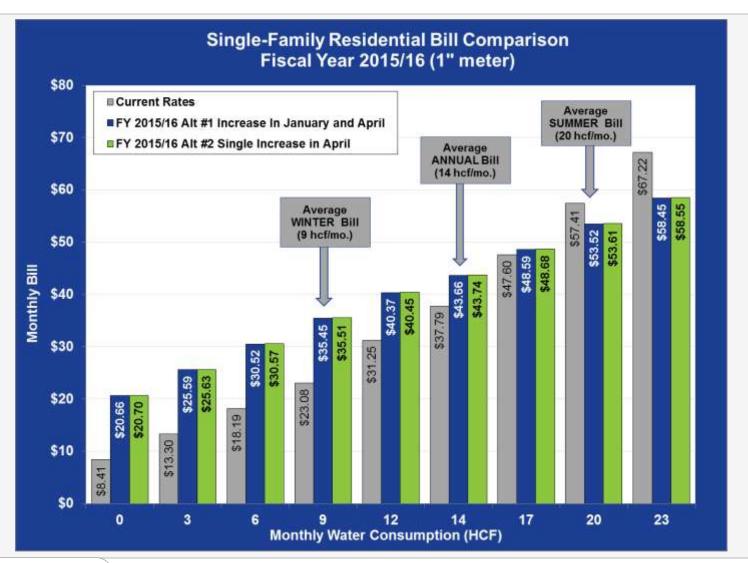




Water Rate Study Bill Comparisons

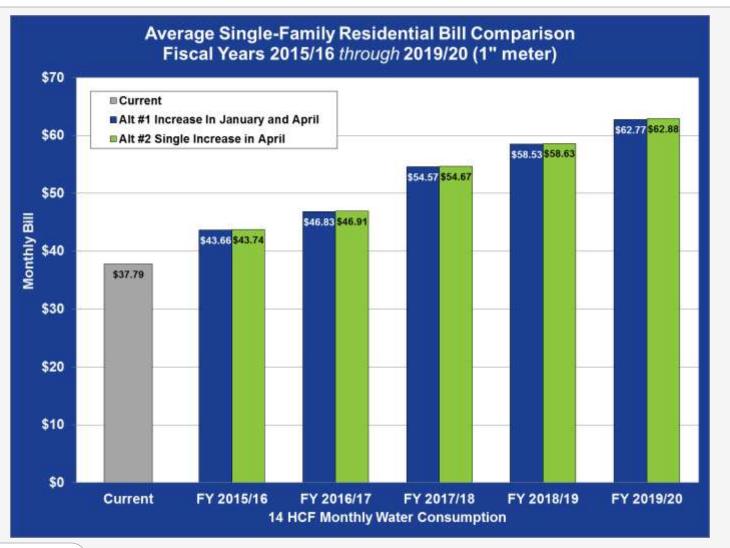


Water Bill Comparisons – Single Family



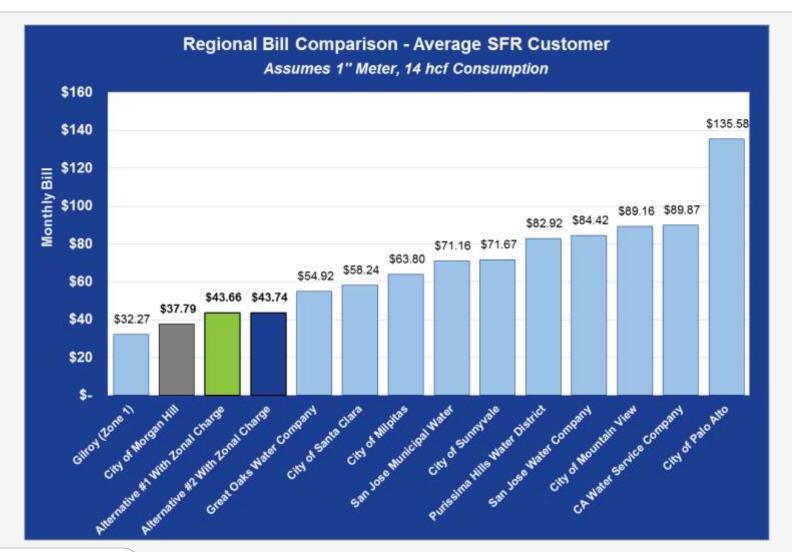


Water Bills – 5 Years, Single Family





Water Bill Comparisons – Regional Comps





Water Rate Study Zonal Elevation Charges



Water Zonal Elevation Costs

Water Enterprise Calculation of Zonal Elevation Surcharges									
			Surcharge Costs						
Elevation Zones	Number of Customers	Annual Annual Replacement of Costs Facility Cost Annual Power Costs				tal Plant Cost*			
Zone 1 Lift Stations	2,630	\$	265,000	\$	139,350	\$	127,020	\$	531,370
Zone 2 Lift Stations	701	\$	180,000	\$	82,500	\$	47,650	\$	310,150
Zone 3 Lift Stations	115	5 \$ 55,000 \$ 21,429 \$ 6,100 \$				\$	82,529		
Total	3,446	\$	500,000	\$	243,279	\$	180,770	\$	924,049

^{*}Total Plant Cost includes annual Power/Maint. Costs plus annual replacement costs based on a straight-line depreciation cost.



Water Zonal Elevation Charges

Strictly Volumetric Charges:

Water Enterprise Zonal Elevation Surcharges: Alternative #1 - Volumetric Surcharges (\$/hcf)								
Elevation Zones	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20			
	% Increase ¹	4.4%	4.4%	4.4%	4.4%			
Zone 1	\$0.57	\$0.60	\$0.62	\$0.65	\$0.68			
Zone 2	\$2.06	\$2.15	\$2.25	\$2.35	\$2.45			
Zone 3	\$5.49	\$5.73	\$5.99	\$6.25	\$6.53			

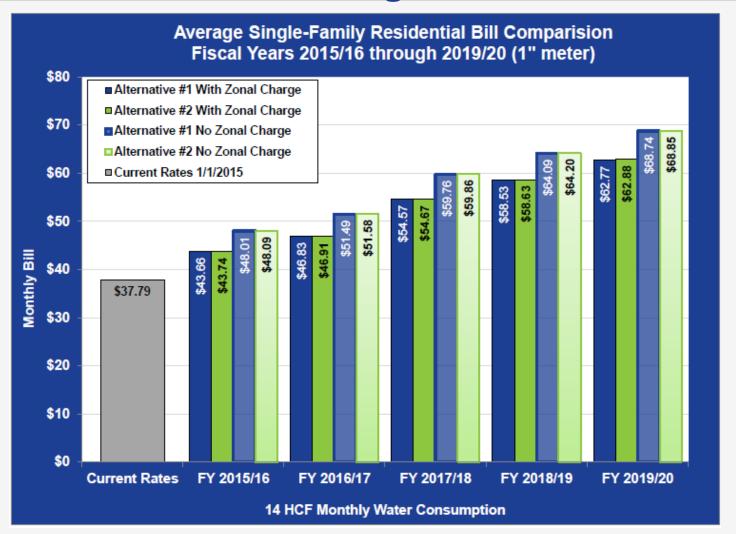
Combination of Fixed and Volumetric Charges:

Water Enterprise Zonal Elevation Surcharges: Alternative #2 - Fixed and Volumetric Surcharges										
Elevation Zones	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20					
Elevation Zones	% Increase ¹	4.4%	4.4%	4.4%	4.4%					
Fixed Monthly Surcharges (\$/customer)										
Zone 1	\$9.78	\$10.21	\$10.66	\$11.13	\$11.63					
Zone 2	\$36.59	\$38.20	\$39.89	\$41.65	\$43.50					
Zone 3	\$91.97	\$96.03	\$100.27	\$104.71	\$109.34					
Volumetric Surchar	ges (\$/hcf)									
Zone 1	\$0.14	\$0.14	\$0.15	\$0.16	\$0.16					
Zone 2	\$0.37	\$0.38	\$0.40	\$0.42	\$0.43					
Zone 3	\$0.62	\$0.65	\$0.67	\$0.70	\$0.74					

^{1.} the Annual % increase is due to cost inflation applied to zone-specific costs.



Average SFR Water Bill – with / without Zonal Charges





Wastewater Rate Study

Recommended Financial Plan

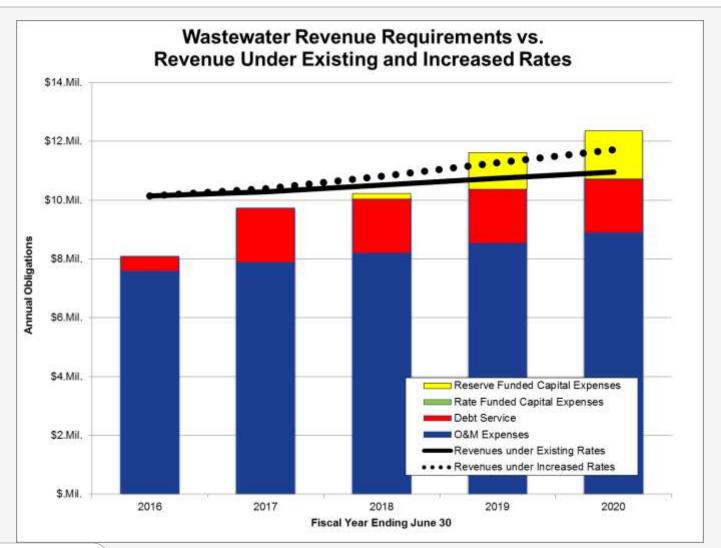


Wastewater Utility Financial Plan

Summary of Sources and Uses of Funds and Net	Budget	Projected Projected					
Revenue Requirements	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20		
Sources of Wastewater Funds	A CONTRACTOR OF THE	successoration	r teorogadero natvenada	respectation of			
Rate Revenue Under Prevailing Rates	\$ 9,921,864	\$10,090,078	\$10,291,880	\$10,497,718	\$10,707,672		
Other Operating Revenue	175,843	179,543	183,354	187,280	191,323		
Interest Earnings	41,394	15,959	33,834	52,214	47,051		
Total Sources of Funds	\$ 10,139,100	\$ 10,285,581	\$ 10,509,068	\$ 10,737,211	\$ 10,946,046		
Uses of Wastewater Funds	7710 DOG/WG 1210	24/100/25/200455	0.0000000000000000000000000000000000000		ente receptor se succes.		
Operating Expenses	\$ 7,566,286	\$ 7,861,132	\$ 8,180,753	\$ 8,517,079	\$ 8,862,574		
Debt Service	\$ 502,299	\$ 1,841,791	\$ 1,845,120	\$ 1,844,478	\$ 1,844,003		
Total Uses of FundsFunds	\$ 8,068,585	\$ 9,702,923	\$ 10,025,873	\$ 10,361,557	\$ 10,706,577		
plus: Revenue from Rate Increases 4	17	50,450	154,893	264,548	379,614		
Surplus (Deficiency) before Rate increase	\$ 2,070,516	\$ 633,108	\$ 638,088	\$ 640,202	\$ 619,082		
Net Revenue Requirement	\$ 7,851,348	\$ 9,507,421	\$ 9,808,685	\$ 10,122,064	\$ 10,468,203		
Total Rate Revenue After Rate Increases	\$ 9,921,864	\$ 10,140,529	\$ 10,446,773	\$ 10,762,265	\$ 11,087,286		
Projected Annual Rate Revenue Increase	0.00%	1.00%	1.00%	1.00%	1.00%		
Cumulative Increase from Annual Revenue Increases	0.00%	1.00%	201%	203%	4.06%		

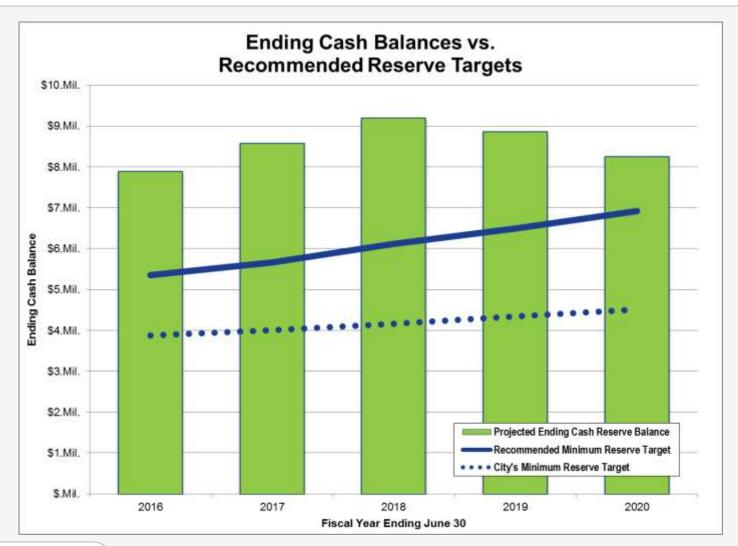


Wastewater Utility Financial Plan, cont.





Wastewater Utility Financial Plan, contd.

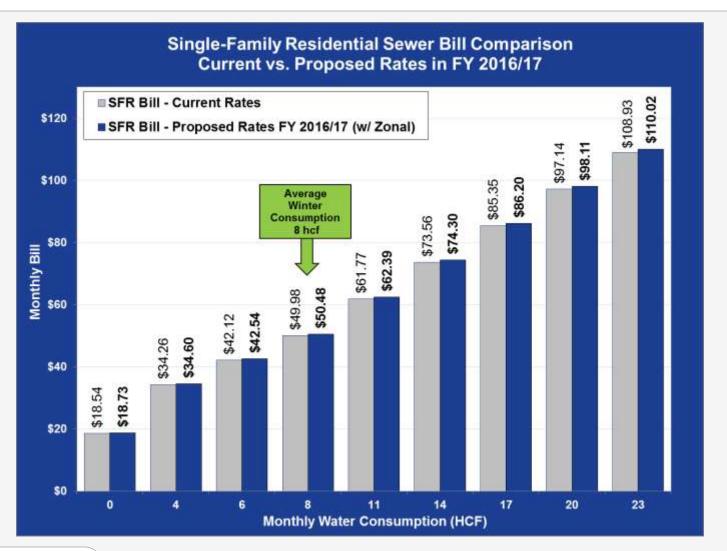




Wastewater Rate Study Bill Comparisons

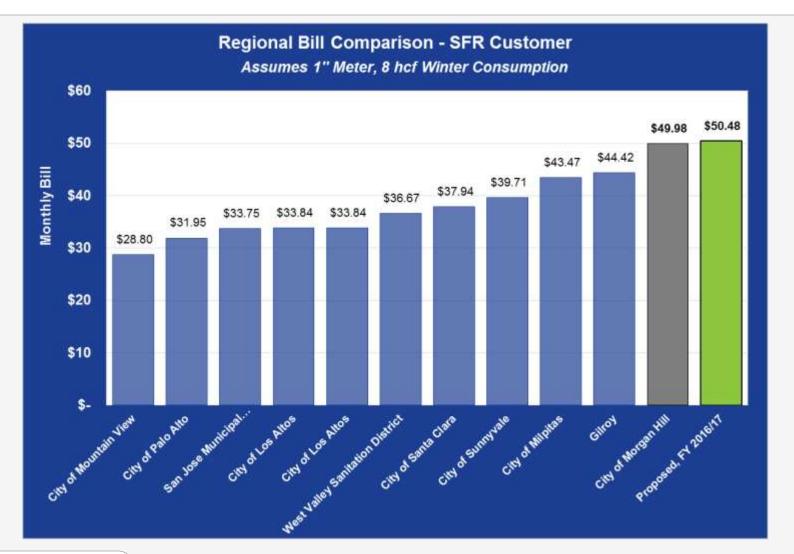


Wastewater Bills – Single Family





Wastewater Bills – Regional Comps





Wastewater Zonal Elevation Costs

Wastewater Enterprise Calculation of Zonal Elevation Surcharges - Volumetric Surcharges									
		Surcharge Costs							
Elevation Zones	Number of Customers	Annual Power Costs Annual Annual Replacement of Facility Cost Annual Replacement of Facility Cost					al Plant Cost*		
Zone 1 Lift Stations	1,476	\$	18,100	\$	150,000	\$	125,000	\$	293,100
Zone 2 Lift Stations	515	\$	6,500	\$	45,000	\$	43,125	\$	94,625
Zone 3 Lift Stations	80	\$	4,500	\$	15,000	\$	13,125	\$	32,625
Total	2,071	\$	29,100	\$	210,000	\$	181,250	\$	420,350

^{*}Total Plant Cost includes annual Power/Maint. Costs plus annual replacement costs based on a straight-line depreciation cost.



Wastewater Zonal Elevation Charges

Strictly Volumetric Charges:

Wastewater Enterprise Zonal Elevation Surcharges: Alternative #1 - Volumetric Surcharges (\$/hcf)								
Elevation Zones	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20			
	% Increase ¹	4.3%	4.3%	4.3%	4.3%			
Zone 1	\$2.66	\$2.77	\$2.89	\$3.02	\$3.15			
Zone 2	\$5.20	\$5.42	\$5.66	\$5.90	\$6.15			
Zone 3	\$10.31	\$10.75	\$11.21	\$11.70	\$12.20			

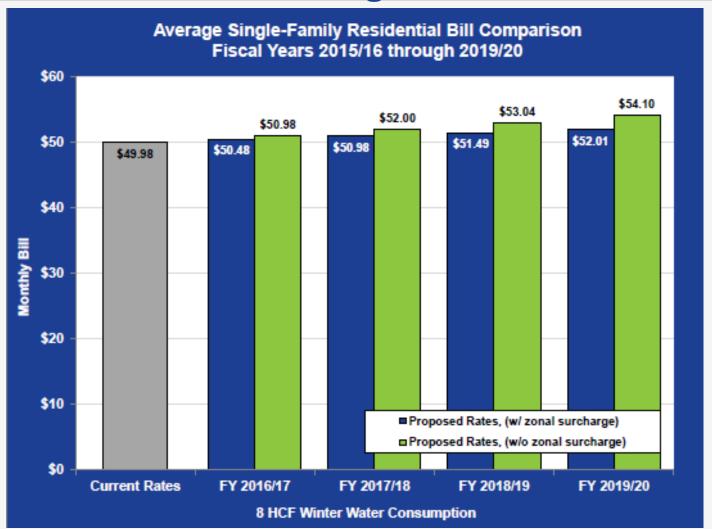
Combination of Fixed and Volumetric Charges:

Wastewater Enterprise Zonal Elevation Surcharges: Alternative #2 - Fixed and Volumetric Surcharges								
Elevation Zones	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20			
Elevation Zones	% Increase ¹	4.3%	4.3%	4.3%	4.3%			
Fixed Monthly Surcharges (\$/customer)								
Zone 1	\$11.07	\$11.54	\$12.04	\$12.55	\$13.10			
Zone 2	\$23.41	\$24.41	\$25.46	\$26.56	\$27.70			
Zone 3	\$52.70	\$54.97	\$57.33	\$59.80	\$62.37			
Volumetric Surchar	ges (\$/hcf)							
Zone 1	\$0.16	\$0.17	\$0.18	\$0.19	\$0.19			
Zone 2	\$0.34	\$0.35	\$0.37	\$0.38	\$0.40			
Zone 3	\$1.04	\$1.09	\$1.14	\$1.18	\$1.24			

^{1.} the Annual % increase is due to cost inflation applied to zone-specific charges.



Average SFR Wastewater Bill – with / without Zonal Charges





Recommendation – Zonal Charges

Average SFR Utility Bill, With Zonal Charges

	Current	4/1/16	1/1/17	1/1/18	1/1/19	1/1/20
Monthly Water Bill	\$ 37.79	\$43.74	\$46.91	<i>\$54.67</i>	\$58.63	\$62.88
Monthly Wastewater Bill	\$ 49.98	\$49.98	\$50.48	\$50.98	\$51.49	\$52.01
Total Monthly Bill	\$ 87.77	\$93.72	\$97.39	\$105.65	\$110.12	\$114.89
Total Bill Percent Increase		6.78%	3.92%	8.48%	4.23%	4.33%



Recommendations

- 1. Accept a 2015 Draft Water and Wastewater Rate Study
- Provide Direction to the Administration on Water Rate implementation
- 3. Adopt a resolution in connection with the consideration of implementation of new Water Rates to:
 - a. Set January 20, 2016 as a date for a Public Hearing, and
 - b. Authorize the Mailing of Proposition 218 Notices
- 4. Adopt a resolution in connection with the consideration of implementation of new Wastewater Rates to:
 - a. Set January 20, 2016 as a date for a Public Hearing, and
 - b. Authorize the Mailing of Proposition 218 Notices



Next Steps

	2015			2016		
Action	October	November	December	January	February	March
Workshop #1	10/21 •					
Workshop #2		11/4				
Accept Rate Study		Tonight				
Prop 218 Protest Period			12/5/15 – 1	/20/16		
Public Hearing				1/20 �		
Adopt Rates				1/27 �		
New Rates Effective						3/28

- Community Priorities Survey is being performed
- Results on community's priority for public health and safety in our water and sewer systems should be available prior to January 20 Public Hearing

